

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 06296507

PUBLICATION DATE : 25-10-94

APPLICATION DATE : 16-04-93

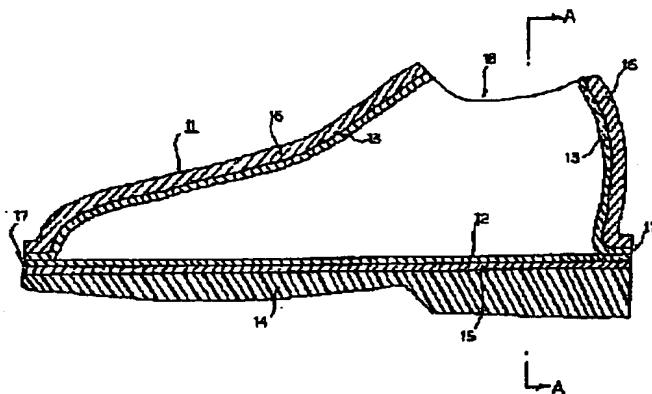
APPLICATION NUMBER : 05089939

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INT.CL. : A43B 23/07 A43B 7/06

TITLE : MOISTURE PROOF SHOES



ABSTRACT : PURPOSE: To improve the durability, shock resistance, and vibration absorbing quality of shoes to prevent moisture by sticking a cloth three dimensionally woven of a fiber along the inside of a shoe.

CONSTITUTION: Hollow threads made of porous macromolecular membrane are used for at least a part of three dimensionally woven cloth 12, 13. A shoe insole member 15 to which the cloth 12 is adhesively bonded and a shoe instep cover member 16 to which the cloth 13 is adhesively bonded are sewn to the periphery 17 of a shoe insole and opening edges of the hollow threads of the cloth members 12, 13 are located at a foot insertion opening of a shoe and the periphery 17 of the shoe insole. When the shoe touches on the ground, the hollow threads in the cloth member 12 are squeezed by the weight imposed on the foot thereby exhausting perspiration component from the opening edges of the periphery 17 of the shoe insole. Conversely, when the foot is lifted from the ground, the hollow threads in the cloth 12 which have been squeezed are restored to the former state thereby absorbing the perspiration component in the shoe efficiently through the microscopic holes of the hollow threads into the inside space. Further, portion of the outside air are taken into the hollow threads through the opening edge of the periphery 17 of the shoe insole thereby performing an easy ventilation of the whole interior of the shoe.

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